

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An identifying coding apparatus employing modulated reflectance technology comprising:

a base station emitting a RF signal;

a tag, located remotely from said base station, consisting essentially of:

a substrate;

at least one antenna;

a network of passive components connected to said antenna, said passive components selected from the group consisting of resistors, capacitors, inductors, and connecting conductors formed by printing said passive components onto said substrate,  
where said network is configured to reflect ~~containing at least one antenna and a predetermined network of other passive circuit components for receiving said RF signal and reflecting back to said base station a~~ the RF signal ~~modulated signal to be~~ indicative of characteristics related to said tag.

2. (Cancelled)

3. (Original) The identifying coding apparatus as described in Claim 1, wherein said tag is configured as a label to be applied to an item of manufacture.

4. (Original) The identifying coding apparatus as described in Claim 3, wherein said label is situated inside a pneumatic tire, and contains a pressure sensor, a temperature sensor and a tire tread wear sensor.

5. (Currently Amended) The identifying coding apparatus as described in Claim 1, wherein said substrate is flexible ~~said at least one antenna and said predetermined other components are printed onto said tag.~~

6. (Cancelled)

7. (Original) The identifying coding apparatus as described in Claim 5, wherein said tag is configured as a label to be applied to an item of manufacture.

8. (Original) The identifying coding apparatus as described in Claim 5, wherein said label is situated inside a pneumatic tire, and contains a pressure sensor, a temperature sensor and a tire tread wear sensor.

9. (Currently Amended) The identifying coding apparatus as described in Claim 1, wherein said network is configured to enable said reflected modulated signal is used to determine the location of said tag.

10. (Currently Amended) The identifying coding apparatus as described in Claim 1, wherein said network is configured to enable said reflected modulated signal is used to identify an entity to which said tag is associated.

11. (Original) The identifying coding apparatus as described in Claim 1, further comprising means for disabling operation of said tag.

12. (Original) The identifying coding apparatus as described in Claim 11, wherein said means for disabling comprises a fusible link on said tag that opens upon receipt by said tag of a particular RF signal from said base station.

13. (Currently Amended) The identifying coding apparatus as described in Claim 11, wherein said means for disabling comprises said substrate is configured to enable breaking apart said tag to be broken apart.

14. (Currently Amended) The identifying coding apparatus as described in Claim 1, further comprising a tab that when torn off said tag affects said modulated reflected signal is such a way as to indicate, ~~for example, distress of a user of said tag~~ a preselected event.

15. (Currently Amended) The identifying coding apparatus as described in Claim 1, wherein said network is configured to obtain a binary code in said modulated reflected signal ~~contains a binary code~~ that identifies the particular user of the tag.

16. (Currently Amended) The identifying coding apparatus as described in Claim 15, wherein ~~said binary code results from~~ said at least one antenna ~~comprising~~ comprises two antennas, a first of said two antennas being out of phase with a second of said two antennas to induce said binary code in said modulated reflected signal.

17. (Currently Amended) The identifying coding apparatus as described in Claim 15, wherein said network includes ~~said binary code results from~~ time-delay

circuits comprising combinations of inductances and capacitances to induce said binary code in said modulated reflected signal.

18. (Currently Amended) The identifying coding apparatus as described in Claim 15, wherein said network includes ~~said binary code results from~~ varying impedances connected to said at least one antenna to induce said binary code in said modulated reflected signal.